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INFRARED AND OPTICS DIVISION
TECHNOLOGY APPLICATIONS

17 August 1973

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National Aeronautics and Space Administration
Johnson Space Center
Principal Investigator Management Office
Houston, Texas 77058

Attention: Mr. Timothy White/TF6

SUBJECT: First Quarterly Report, 8 March through 31 May 1973
Contract NAS9-13275

Gentlemen:

This report covers progress during the time period 8 March through 31 May 1973 under the Contract NAS9-13275, "A Skylab-A Program for the International Hydrological Decade (IHD)," EREP No. 427. The work is conducted in the Infrared and Optics Division of the Environmental Research Institute of Michigan under the general supervision of Mr. R. R. Legault. The Principal Investigator is Mr. F. C. Polcyn.

OVERALL STATUS

Preparations for field measurements in support of anticipated Skylab SL-2 overpasses on Track 18 were made. The field measurements consist principally of land-use determinations, soil moisture measurements, and selection of possible training sites to be used in later computer analysis.

Aircraft data requirements were coordinated with Mr. Steve Stewart and other ERIM personnel. Several flightlines were selected over the Bowmanville, Ontario area and over representative basins in the Syracuse, New York area.

RECOMMENDATIONS FOR ACTION

To date, a sample 7 track, 800 bpi digital tape illustrating the format of scan line straightened S-192 data has not been received. This product was requested in the MRD. Such a product is needed for orderly progress on software development for converting the data tapes from the expected formats to one compatible with our 7094 computers.

(E73-10888) A SKYLAB-A PROGRAM FOR THE
INTERNATIONAL HYDROLOGICAL DECADE (IHD)
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(Environmental Research Inst. of Michigan)
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Priority for collecting data on the ascending track 15 during September, 1973 may be required if no data is collected before August 11, 1973, on a descending track.

EXPECTED ACCOMPLISHMENTS DURING NEXT PERIOD

The next quarter will cover some SL-2 and SL-3 planned passes. We will support those passes where data is being taken with ground truth and concurrent ERIM aircraft flights.

SIGNIFICANT RESULTS

None

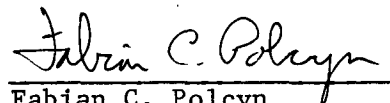
SUMMARY OUTLOOK

The remaining effort to be performed is substantially all the effort of the contract as presented in the milestone plan.

TRAVEL SUMMARY AND PLANS

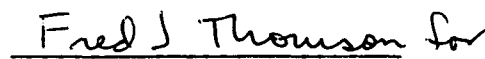
No travel was undertaken this quarter but plans are in effect for travel for two persons to selected sites in New York state for ground truth collection in support of an anticipated SL-3 pass.

Respectfully submitted,



Fabian C. Polcyn
Principal Investigator

Approved by:


Richard R. Legault
Director, Infrared and Optics
Division

FCP:RRL:njm